Revised by Astrid 5/25/2001

GEL ELECTROPHORESIS OF PCR PRODUCTS

1. Pour a 2% agarose gel using 1X TBE buffer.

***Mix 5gm of agarose with 250ml of 1X TBE** in a 500ml Erlenmyer flask.
***Microwave 4 min 20 sec at 50% power.** Keep covered and watch for boiling.
***Cool to 55° C** (10-15 min).
***Add 25µl 10mg/ml EtBr.**
***Pour in casting frame (about 225ml) and remove bubbles.**
***Place 4 combs in positions 1,2,4, & 6.** (2 plates per gel)

2. **Load 4µl of GibcoBRL 100bp ladder** (stock is 1µg/µL; dilute with loading buffer to 0.1µg/µL and store frozen) **at first and last lane of each row.**

3. **Use cordless pipettor to pick up 2µL of PCR product, then pick up 6.5µL of loading buffer and load into gel.**

4. **Run gel at 300 Watts for 25 minutes.**
   or until 1st dark dye front is half-way down the lane

5. **Analyze gel image on the digital camera.** (Save on zip disk and print a photo).

MULT IMAGE LIGHT CABINET
ALPHA INNOTECH CORP.

Click and open Alpha Imager 2000 3.3b
Flip on Epi-white light

- with door open place gel in frame (dry off bottom) on glass—center in viewing frame
- adjust (zoom in or out with 2nd dial) until entire gel is in focus, adjust aperture w/ upper dial
- close door and flip off Epi-white light

Turn on UV lamp (button on bottom right)
Click expose (good gel will expose in 8/30 sec. to 12/30 sec.)
Adjust black, white, and gamma for best view desired---click "freeze"
Turn off lamp
Save image on zip disk (drive d)
Print image